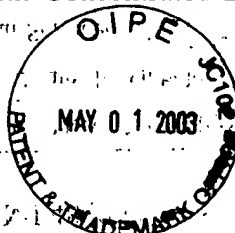


28PM

2834

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2 Applicant: Parviz Soroushian  
3 For: Pseudoelastic Springs with Concentrated Deformations and Applications  
4 Thereof  
5 Serial No.: 09/733,690  
6 Filed: 12/11/2000  
7 Art Unit: 2834  
8 Examiner: Judson H. Jones  
9 Atty. Docket: The application is pursued by the applicant (Dr. Parviz Soroushian 2000  
10 Turner Street Lansing, MI 48906 Ph/Fax: 517-485-9583)




CERTIFICATION OF MAILING/TRANSMISSION OF CFR 1.8(a)	
I hereby certify that this correspondence is on the date shown below, being	
✓ deposited with the United States Postal Service with sufficient postage as Priority Mail, in an envelope addressed to the Assistant Commissioner of Patents, Washington, DC 20231.	
Transmitted by facsimile to the Patent and Trademark Office to Examiner	
at	
4/25/03	PARVIZ SOUROSHIAN
Date	Name of Person Certifying

11  
12 Assistant Commissioner for Patents  
13 Washington, D.C. 20231  
14 Sir;  
15 This paper is responsive to your paper mailed to us on 3/31/2003. Following your  
16 recommendation, I would like to cancel all previous claims, and introduce claims 35  
17 through 40 presented in the following pages. We would appreciate it if you kindly help

1 us by suggesting amendments to the claims that you find necessary to make the claims  
2 allowable.

3 Thank you for your consideration.

4 Sincerely yours,

5 

6 Parviz Soroushian

7 2000 Turner Street

8 Lansing, MI 48906

9 Ph/Fax: 517-485-9583

10

1 CLAIMS

2

3 35. A spring used in brush holder, with said spring having force levels varying by  
4 less than 30% over more than 40% of maximum deflection capacity during  
5 loading, and said spring comprising a pseudoelastic element that has a memory  
6 shape and stiffened by a bracing that is not pseudoelastic, with at least one  
7 segment where said bracing is absent and at least one of flexural and torsional  
8 deformations concentrate.

9 36. The spring used in brush holder according to claim 35, wherein the force levels  
10 of said spring vary by less than 30% over more than 40% of maximum deflection  
11 capacity during unloading.

12 37. The spring used in brush holder according to claim 35, wherein said  
13 pseudoelastic material is formed of elements selected from the group consisting  
14 essentially of Ni, Ag, Au, Cd, In, Ga, Si, Ge, Sn, Sb, Zn, Nb, Cu, Co, Fe, Mn, Pt,  
15 Al, Ti, Cr, Be, C and Tl, and combinations thereof.

16 38. The spring used in brush holder according to claim 35, wherein said  
17 pseudoelastic element has been formed and then heat treated when restrained in  
18 order to assume said memory shape.

19 39. The spring used in brush holder according to claim 35, wherein said force levels  
20 are applied and removed at least once for improving stability under subsequent  
21 repeated load application.

22 40. The spring used in brush holder according to claim 35, wherein said  
23 pseudoelastic spring is at least partly fixed against lateral deflections.